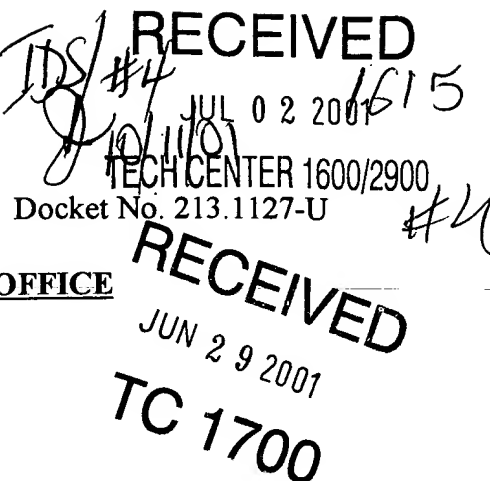




**UNITED STATES PATENT AND TRADEMARK OFFICE**



Examiner: Not Yet Known

Art Unit: 1615

Re: Application of:

GREENWALD, Richard B., et al.

Serial No.:

09/823,296

Filed:

March 29, 2001

For:

**TERMINALLY-BRANCHED POLYMERIC  
LINKERS CONTAINING EXTENSION MOIETIES  
AND POLYMERIC CONJUGATES CONTAINING  
THE SAME**

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner  
for Patents  
Washington, D.C. 20231

June 26, 2001

Sir:

Pursuant to M.P.E.P. § 609 and 37 C.F.R. § 1.56, 1.97 - 1.99, Applicants herewith submit forms PTO-1449, which lists references of which Applicants are aware.

Copies of the references cited in the PTO-1449 forms are included herewith.

This submission does not represent that a search has been made or that no better art exists. While the term "references" is used in citing the U.S. patents called to the Examiner's attention herein, Applicants do not make any admission that each or all of them are "prior art" references within the meaning of the statutory and case law.

I hereby certify that this correspondence and/or fee is being deposited with the United States Postal Service as first class mail in an envelope addressed to "Assistant Commissioner for Patents, Washington, D.C. 20231" on June 26, 2001.

ROBERTS & MERCANTI, LLP

BY:

Michael N. Mercanti



Applicants reserve the right to contend, where appropriate, that a patent asserted against any claim of the present application is not prior art under the facts and the law.

Applicants also reserve the right to present appropriate arguments and/or evidence to establish patentability over the references, should one or more of the references be applied against the claims of the present application.

Applicants request that the Examiner independently determine those items which the Examiner would consider the most pertinent of all the references cited herein.

This Information Disclosure Statement is filed within three (3) months of the filing date of this application and before the mailing date of the first Office Action on the merits. Accordingly, this document complies with the requirements of 37 C.F.R. Section 1.97(b). It is respectfully requested that the references cited in the accompanying PTO-1449 Forms be considered and made of record.

No fee is believed to be due. Any deficiency or overpayment concerning this document should be charged or credited to Deposit Account No. 50-0217.

Respectfully submitted,

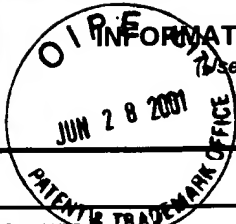
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<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p> <p><b>RECEIVED</b> JUN 28 2001 PATENT &amp; TRADEMARK OFFICE</p> </div> <div style="text-align: right;"> <p><b>TECH CENTER 1600/2900</b> JUL 02 2001</p> </div> </div>				Docket Number (Optional) <b>213.1127</b>		Application Number <b>09/823,296</b>		
				Applicant(s) <b>GREENWALD, R.B., et al.</b>				
				Filing Date <b>March 29, 2001</b>		Group Art Unit <b>1615</b>		
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
							YES	NO
	A1	U.S. 5,756,825	05/26/98	SAFAVY, A., et al.				04/16/93
	A2	U.S. 6,020,373	02/01/00	SCHELLENBERG, K., et al.				04/21/97
	A3	U.S. 5,919,455	07/06/99	GREENWALD, R.B., et al.				03/20/97
	A4	U.S. 6,113,906	09/05/00	GREENWALD, R.B., et al.				12/29/98
	A5	U.S. 5,643,575	07/01/97	MARTINEZ, A., et al.				10/27/93
	A6	U.S. 5,382,657	01/17/95	KARASIEWICZ, R., et al.				08/26/92
	A7	U.S. 5,932,462	08/03/99	HARRIS, J. M., et al.				05/17/95
	A8	U.S. 5,433,886	07/18/95	SHERBONDY, A.M., et al.				05/07/92
	A9	U.S. 5,283,339	02/01/94	ARNOLD, F.H., et al.				08/05/92
	A10	U.S. 5,454,954	10/03/95	ALFANO, N. J., et al.				11/02/94
	A11	U.S. 5,693,626	12/02/97	SAKSENA, et al.				06/02/95
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	A12	WO 95/09883	04/13/95	PCT				✓
	A13	EP 0 809 996 A2	03/12/97	EUROPE				✓
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)								
	A14	KING, H.D., et al., Monoclonal Antibody Conjugates of Doxorubicin Prepared with Branched Linkers: A Novel Method for Increasing the Potency of Doxorubicin Immunoconjugates, Bioconjugate Chem., 1999, pages 279-288.						
	A15	OHYA, Y., et al., Synthesis and Cytotoxic Activity of Conjugates of Monomethoxy-Poly-(ethylene glycol) End-capped with Doxorubicin via Ester, Amide, or Schiff's Base Bond, Journal of Bioactive and Compatible Polymers, 1995, pages 51-66.						
EXAMINER				DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

 <p style="margin: 0;">INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p>				ATTY DOCKET NO. 213.1127-		SERIAL NO. 09/823,296	
				APPLICANT(S) GREENWALD, R.B., et al.			
				FILING DATE March 29, 2001		GROUP 1615	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	A16	U.S. 5,994,517	11/30/99	TS'O, P.O.P., et al.			11/22/96
	A17	U.S. 6,039,931	03/21/00	SCHMITT-WILLICH, et al.			10/06/94
	A18	U.S. 5,693,310	12/02/97	GRIES, H., et al.			11/09/90
	A19	U.S. 5,679,852	10/21/97	PLATZEK, J., et al.			06/02/95
	A20	U.S. 5,646,159	07/08/97	WALL, M.E., et al.			07/20/94
	A21	U.S. 5,968,943	10/19/99	CAO, Z., et al.			02/25/98
	A22	U.S. 5,583,206	12/10/96	SNOW, R.A., et al.			11/28/94
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A23	BENAGLIA, M., et al., Synthesis of New Poly(ethyleneglycol)s with a High Loading Capacity, J. Org. Chem., 1998, pages 8628-8629.					
	A24	CHEN, J., et al., Thiol-Reactive Luminescent Chelates of Terbium and Europium, Bioconjugate Chem., 1999, pages 311-315.					
EXAMINER				DATE CONSIDERED			
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

JUN 28 2001

Docket Number (Optional)

213.1127-

Application Number

09/823,396

Applicant(s)

GREENWALD, R.B., et al.

Filing Date

March 29, 2001

Group Art Unit

1615

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\*EXAMINER  
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A25

HINDS, J. V., et al., Paramagnetic Oligonucleotides: Contrast Agents for Magnetic Resonance Imaging with Proton Relaxation Enhancement Effects, Bioconjugate Chem., March/April 1999, Volume 10, Number 2, PAGES 155-158.

A26

YAMASAKI, N., et al., Some Properties of Ricin D Modified with a Methoxypolyethylene Glycol Derivative, Agric. Biol. Chem., 1990, Volume 54, Number 10, pages 2635-2640.

A27

GREENWALD, R.B., et al., Drug Delivery Systems Employing 1,4- or 1,6- Elimination: Poly (ethylene glycol) Prodrugs of Amine-Containing Compounds, Journal of Medicinal Chemistry, 1999, Volume 42, Number 18, pages 3657-3667.

A28

Shearwater Polymers Catalog, Inc., Group Three A - Active Esters, page 13, 2000.

A29

GREENWALD, R.B., et al., Poly(ethylene glycol) Conjugated Drugs and Prodrugs: A Comprehensive Review, Critical Reviews in Therapeutic Drug Carrier Systems, 2000, Volume 17, Number 2, pages 101-161.

A30

WILLIAMS, M.A., et al., Synthesis of Enantiomerically Pure Diethylenetriaminepentaacetic Acid Analogues. L-Phenylalanine as the Educt for Sunstitution at the Central Acetic Acid, J. Org. Chem., 1993, Volume 58, pages 1151-1158.

A31

Shearwater Polymers, Inc. Catalog, Polyethylene Glycol Derivatives, Star Pegs and Branched Pegs, 1997-1998

A32

Shearwater Polymers, Inc., Quarterly Newsletter, March 1998, Number 1

A33

SAKSENA, Anil K., et al., Concise Asymmetric Routes to 2,2,4-Trisubstituted Tetrahydrofurans Via Chiral Titanium Imide Enolates: Key Intermediates Towards Synthesis of Highly Active Azole Antifungals SCH 51048 and SCH 56592, Tetrahedron Letters, Vol. 37, No. 32, pages 5657-5660, 1996.

A34

TWYMAN, L.J., et al., The Synthesis of Water Soluble Dendrimers, and their Application as Possible Drug Delivery Systems, Tetrahedron Letters, Volume 40, 1999, pages 1743-1746.

A35

CERNY, L.C., et al., A Potential Blood Substitute From A Tetronic Polyol And A Modified Hemoglobin, Biomat., Art. Cells & Immob. Biotech., Volume 20, No. 1, pages 71-93, 1992.

A36

GREENWALD, R.B., Oncologic, Endocrine & Metabolic; Drug Delivery Systems: Anticancer Prodrugs and their Polymeric Conjugates, Exp. Opin. Ther. Patents, Vol. 7, No. 6, pages 601-609, 1997.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

213.1127-U

Application Number

09/821,596

Applicant(s)

GREENWALD, R.B., et al.

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March 29, 2001

Group Art Unit

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\*EXAMINER OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

INITIAL

A37

MONFARDINI, C., et al., A Branched Monomethoxypoly(ethylene glycol) for Protein Modification, Bioconjugate Chem, 1995, Volume 6, pages 62-69.

A38

RANGANATHAN, D., et al., Synthesis of Totally Chiral, Multiple Armed, Poly Glu and Poly Asp Scaffoldings on Bifunctional Adamantane Core, Tetrahedron Letters, Vol. 38, No. 7, pages 1265-1268, 1997.

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JUN 29 2001  
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EXAMINER

DATE CONSIDERED

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